

PRELIMINARY REPORT OF 040207

ATTENTION: This report is automatically generated no comments are provided on data analysis

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1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P) products, which are the available few hours after the acquisition, on the high rate browse (BP) products and on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Browse Visual Inspection

2.3 - Data Analysis

-Stable wave internal calibration pulses gain and phase.

- Stable raw data statistics.
- Nominal Doppler behavior.

3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis. The purpose of this mode is to identify any malfunctioning modules and to identify modules for which calibration offsets are to be applied.

No anomalies observed on available MS products:

Polarisation	Start Time
V	20040205 200530
H	20040205 200410

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
⊗	⊗
⊗	⊗
⊗	⊗
⊗	⊗

MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
⊗	⊗
⊗	⊗
⊗	⊗
⊗	⊗

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.64937	-22.4344	-8.13697
	stdev	0.00614750	0.0632967	0.00262002

24	mean	-5.10363	-21.0809	-8.13697
	stdev	0.0153426	0.0627188	0.00262002



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.68035	-22.4775	-8.14761
	stdev	0.00697416	0.0721840	0.00313335
24	mean	-5.23441	-21.1172	-8.14761
	stdev	0.546616	0.0666135	0.00313335



4.3 - cal pulses monitoring (all rows)



5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000424688
	stdev	2.88899e-07
MEAN Q	mean	0.000351948
	stdev	3.33735e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.118436
	stdev	0.00136343

STDEV Q	mean	0.118669
	stdev	0.00137782



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

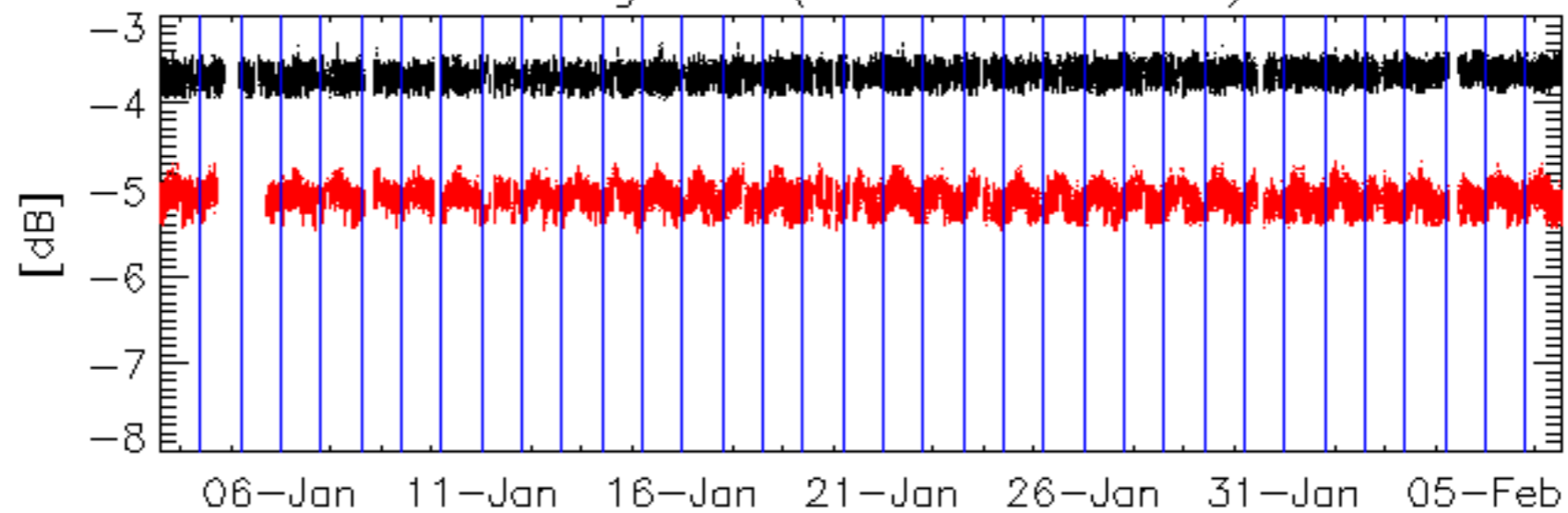
Preliminary report. The data is not yet controlled

6.1 - Doppler evolution versus ANX

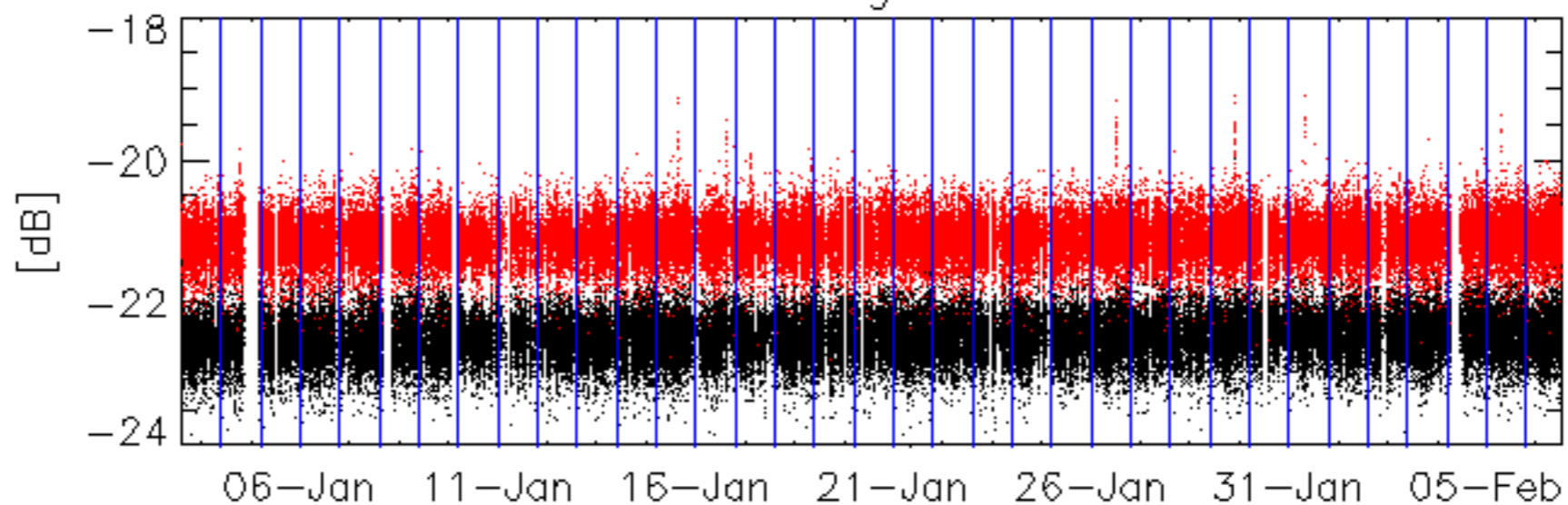
Evolution Doppler error versus ANX



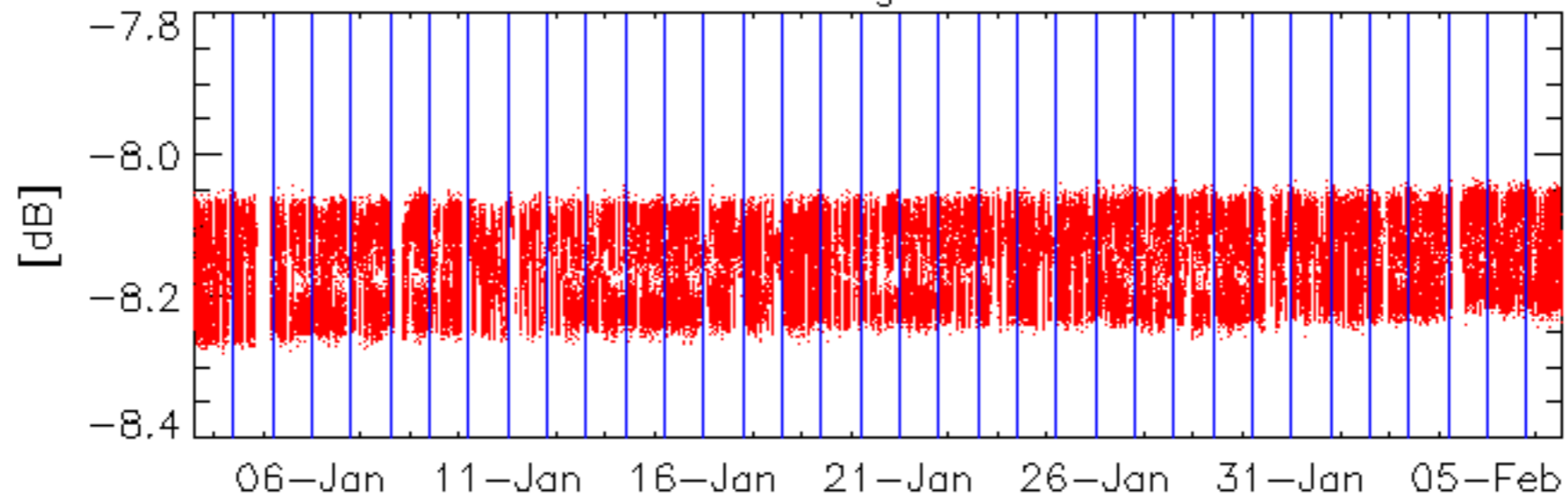
Average P1 (row 3 & row 24)



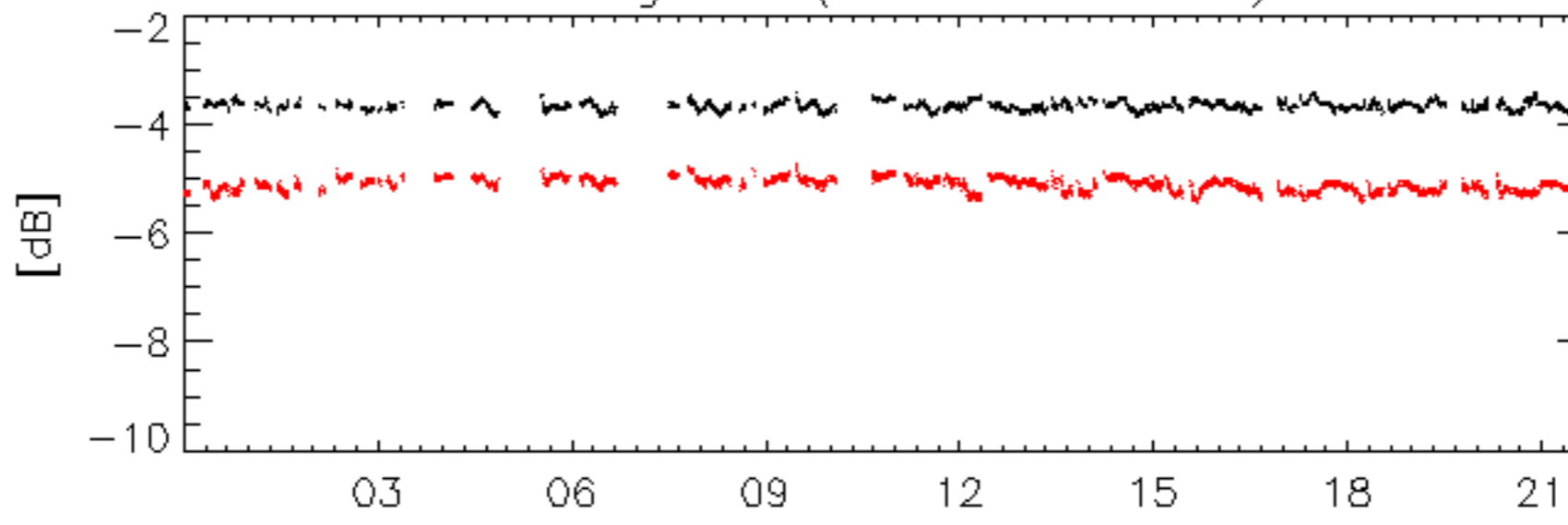
Average P2



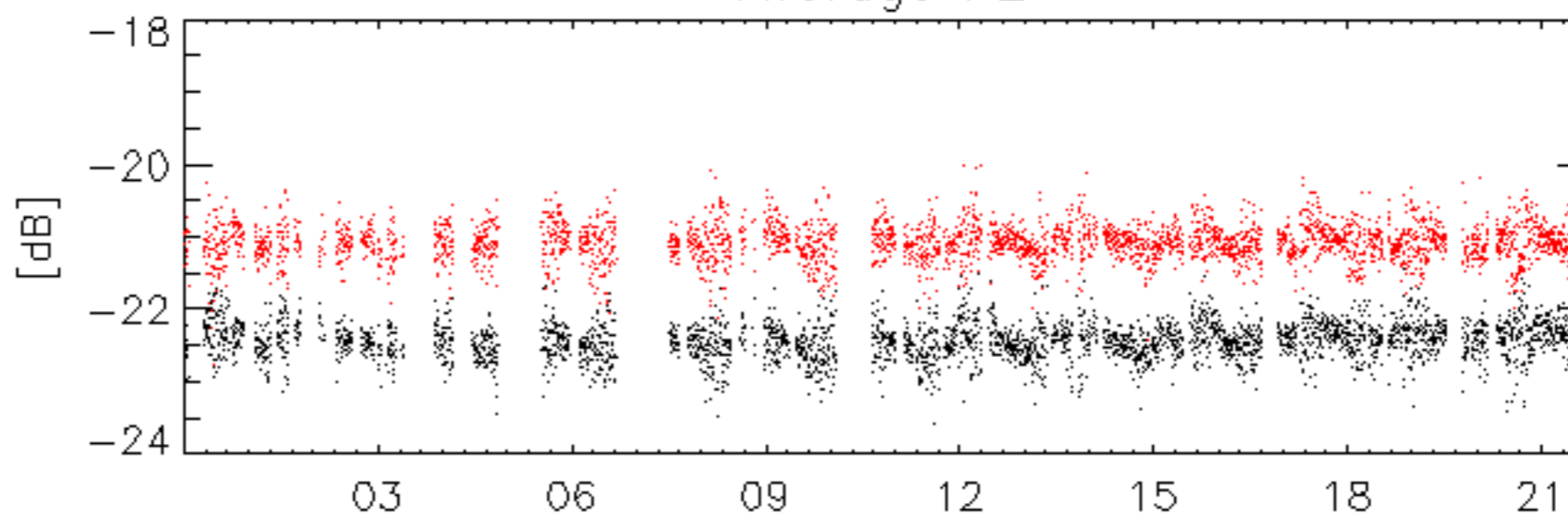
Average P3



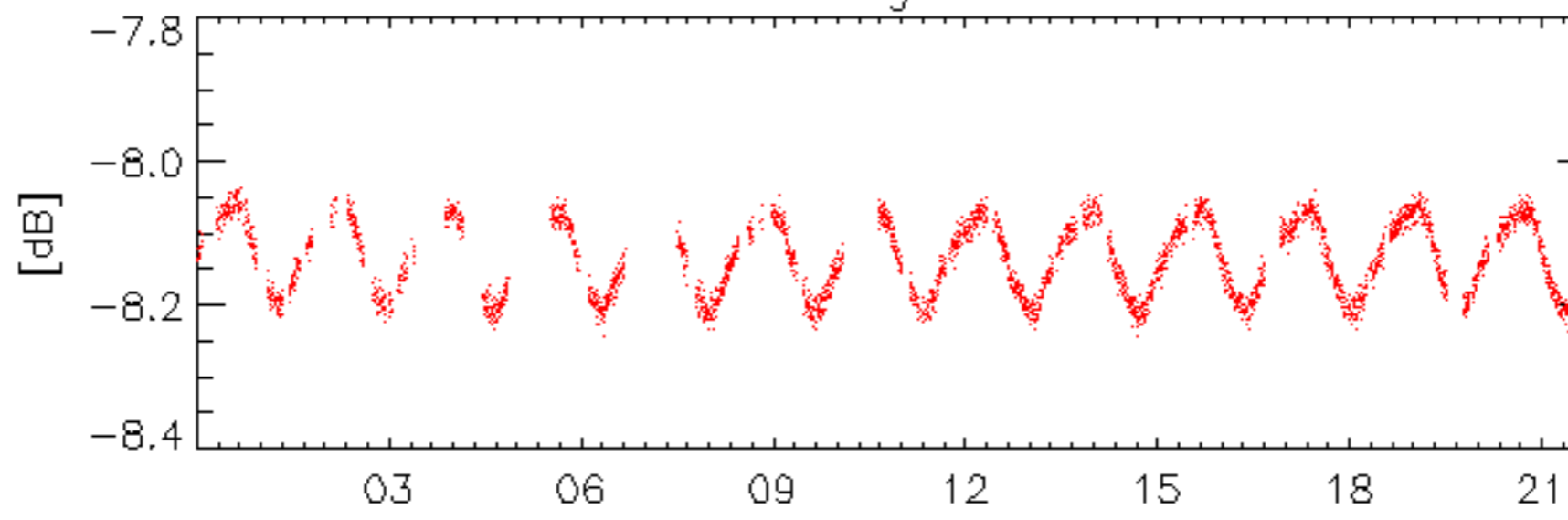
Average P1 (row 3 & row 24)



06-Feb
Average P2

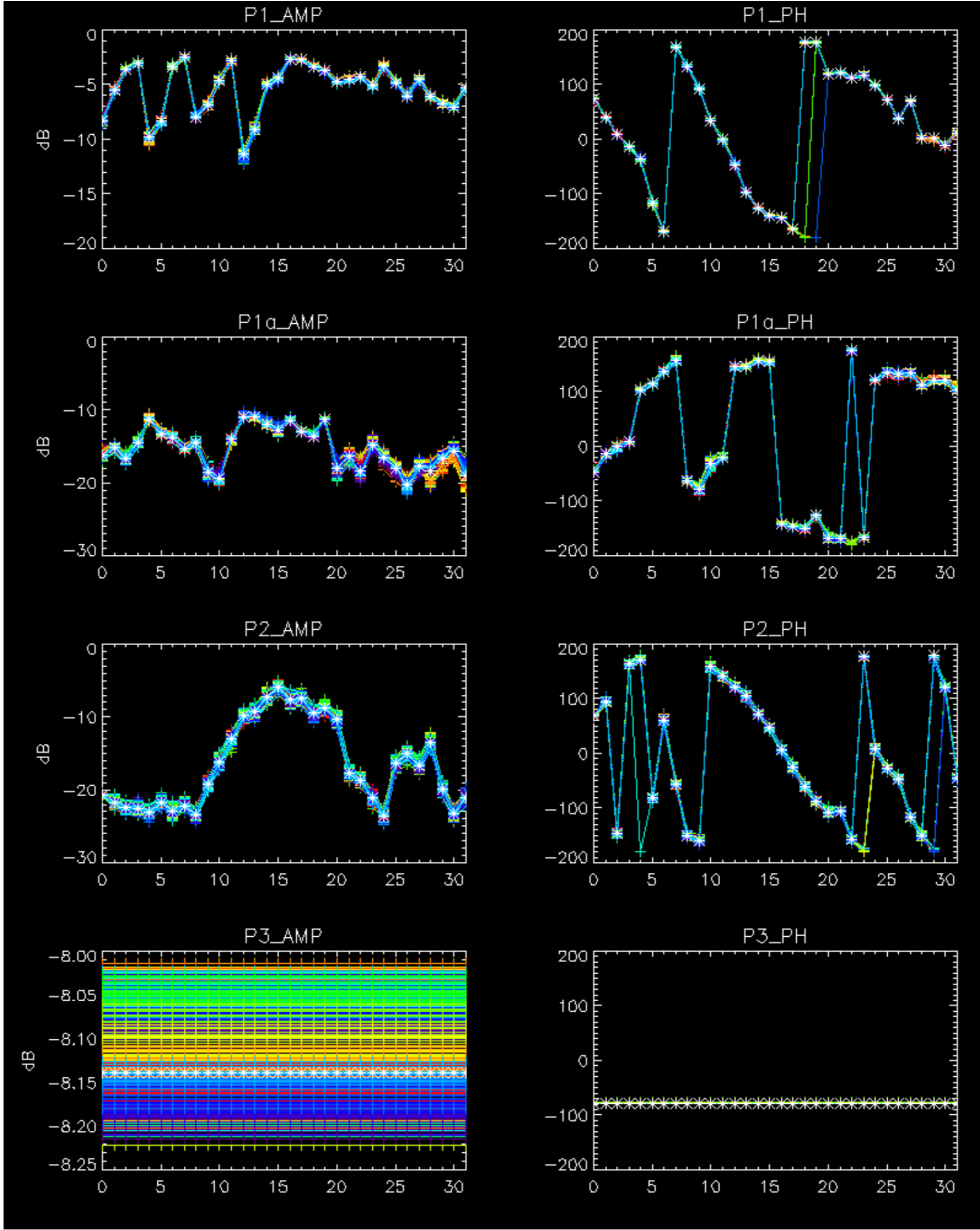


06-Feb
Average P3



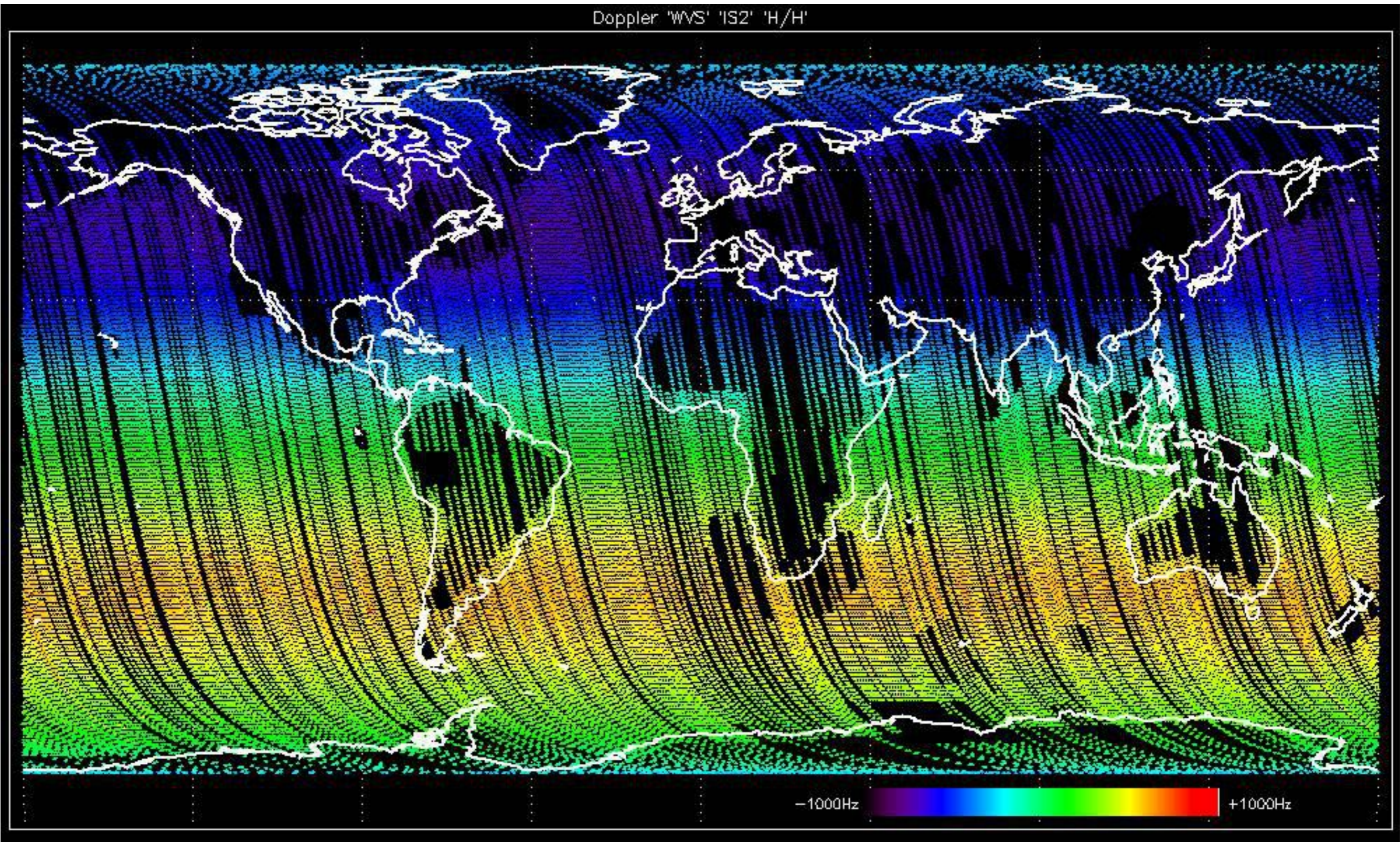
06-Feb

No anomalies observed.

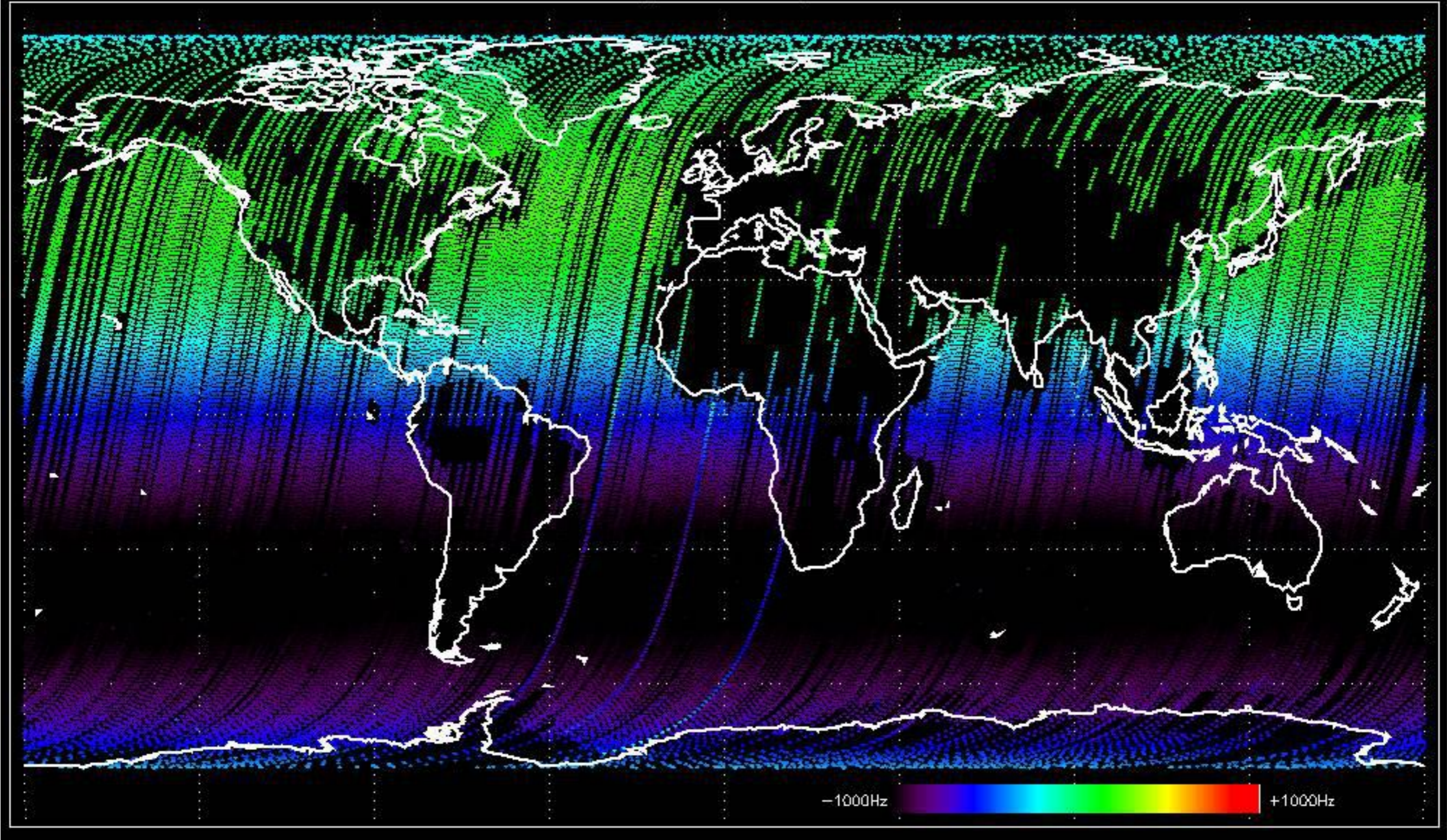


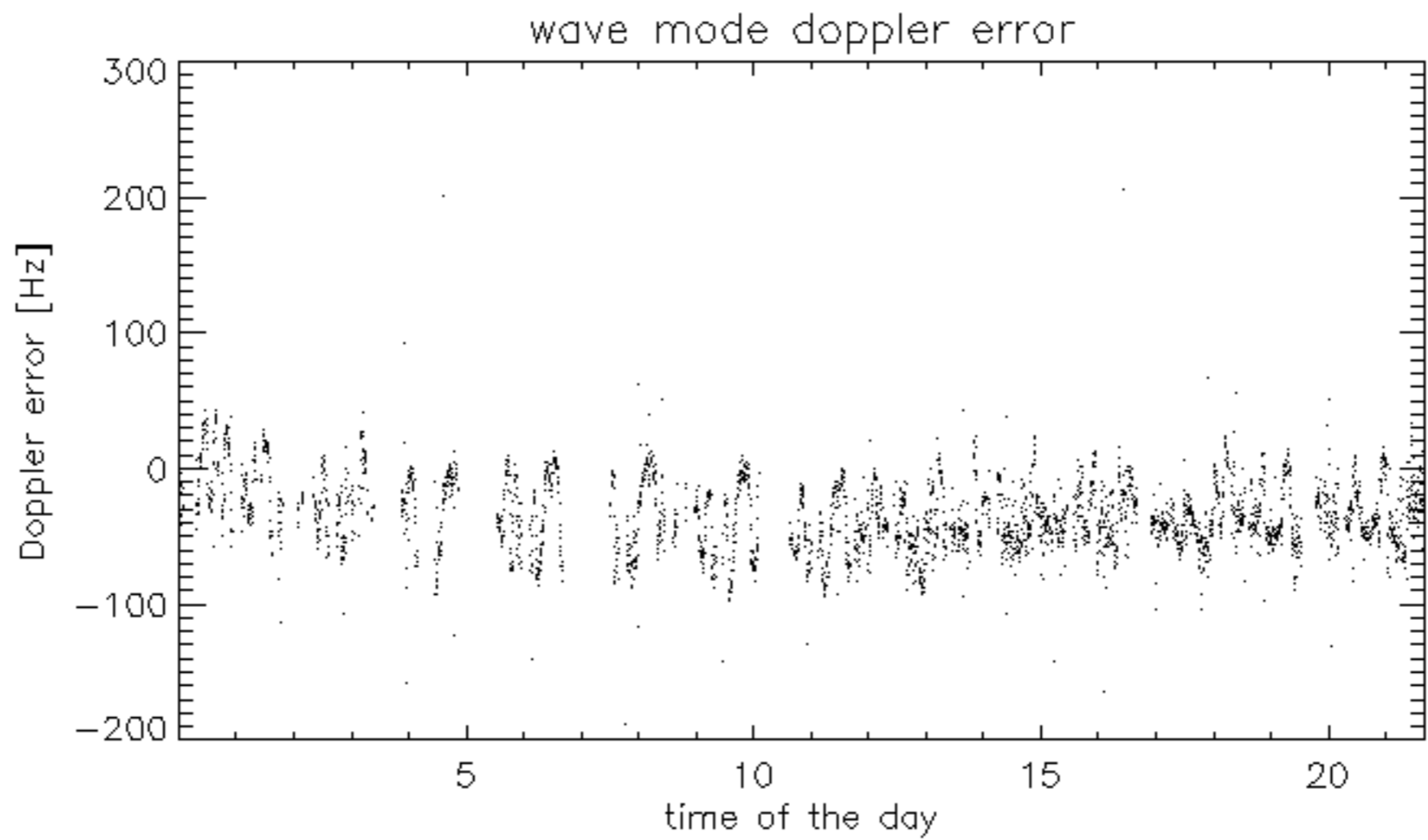
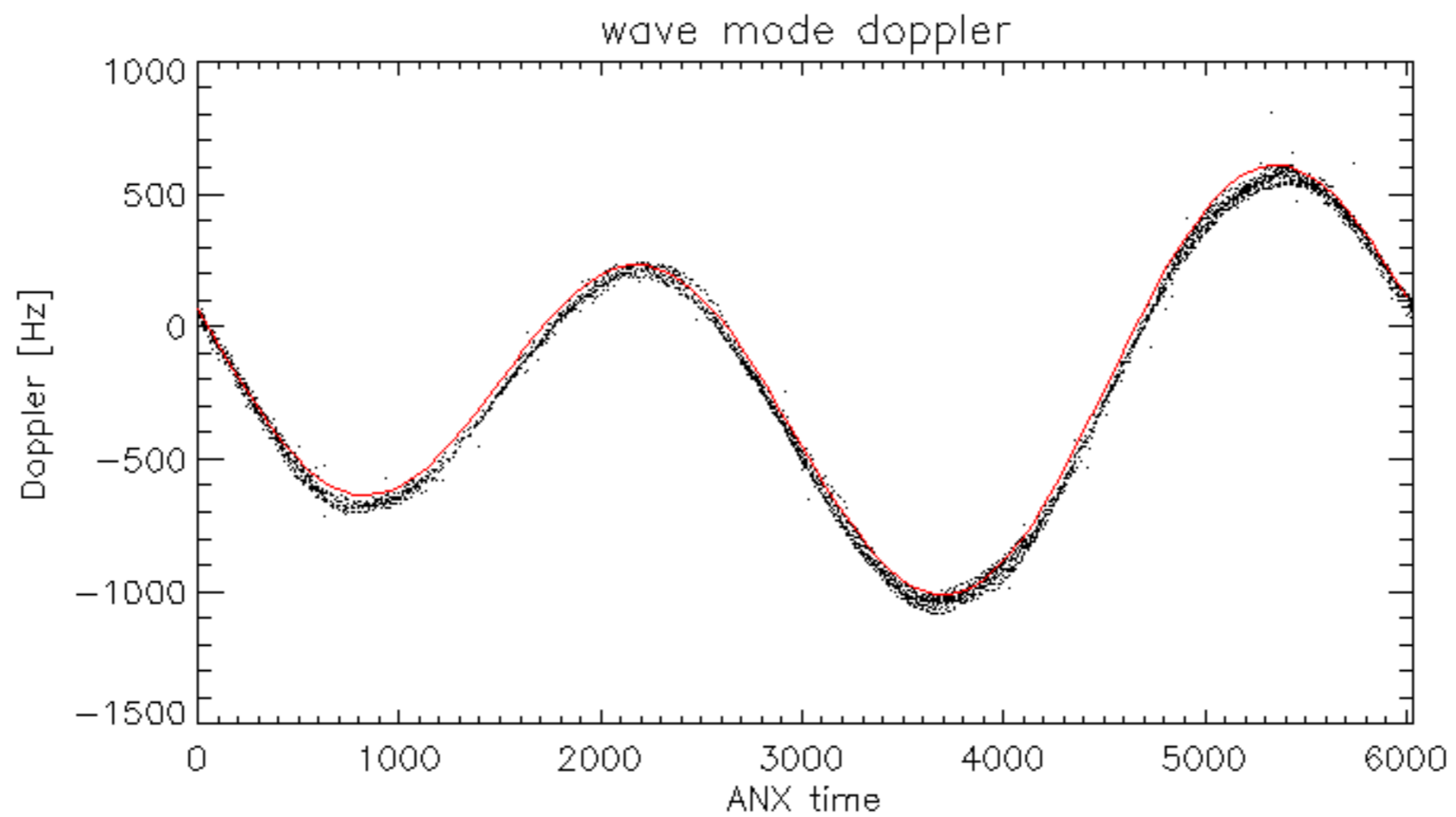
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

Doppler 'WVS' 'IS2' 'H/H'

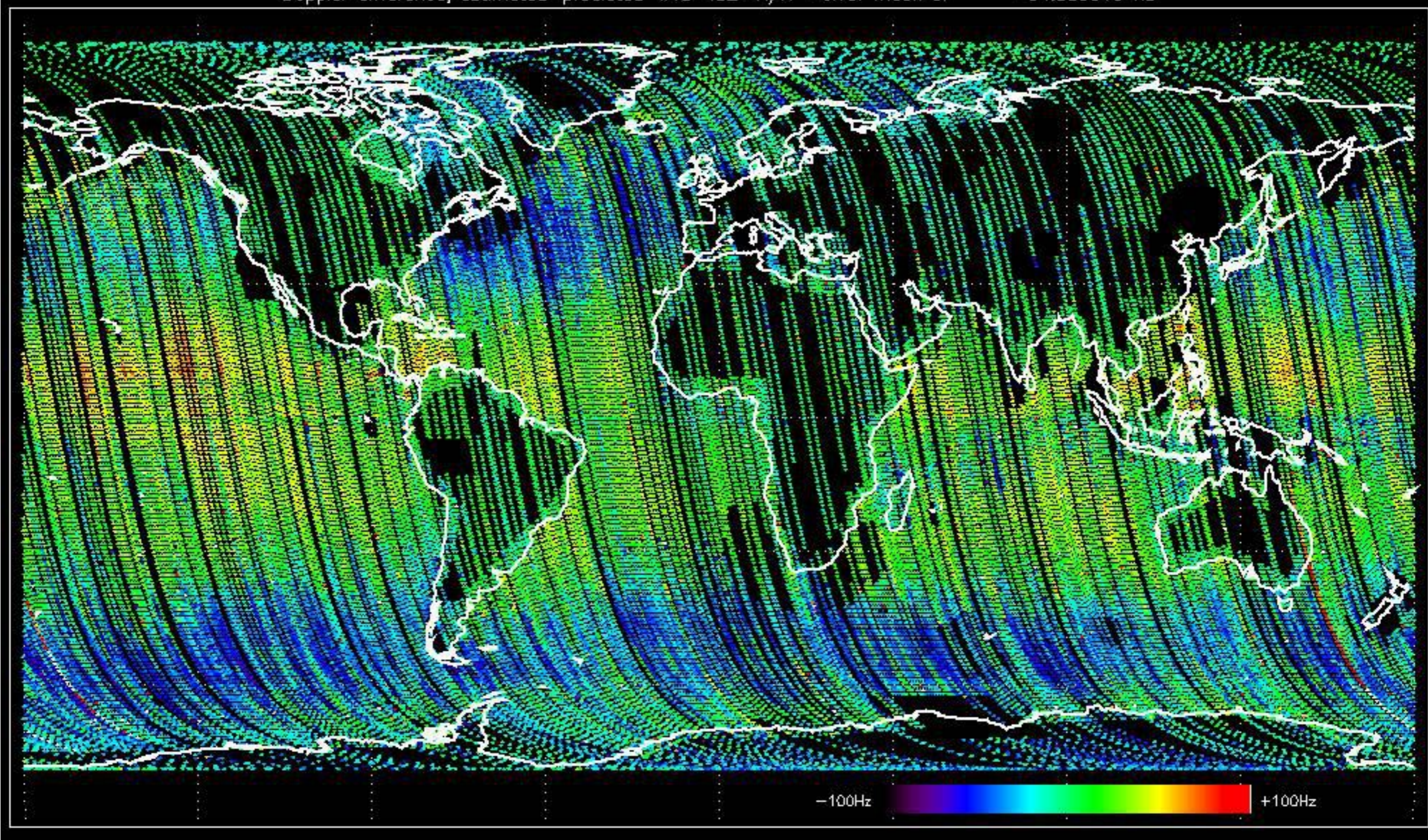


Doppler 'WVS' 'IS2' 'V/V'



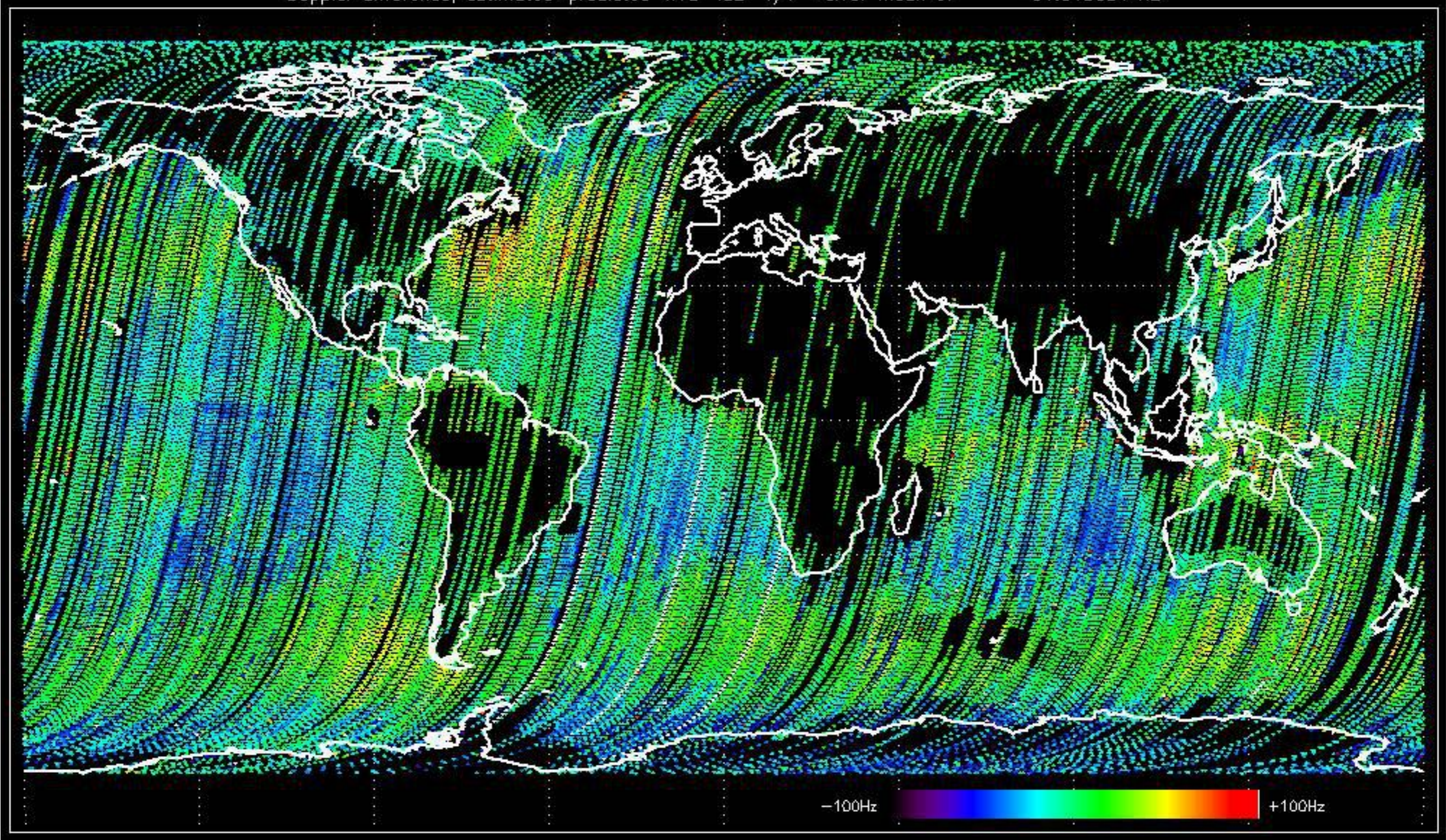


Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -34.389315 Hz



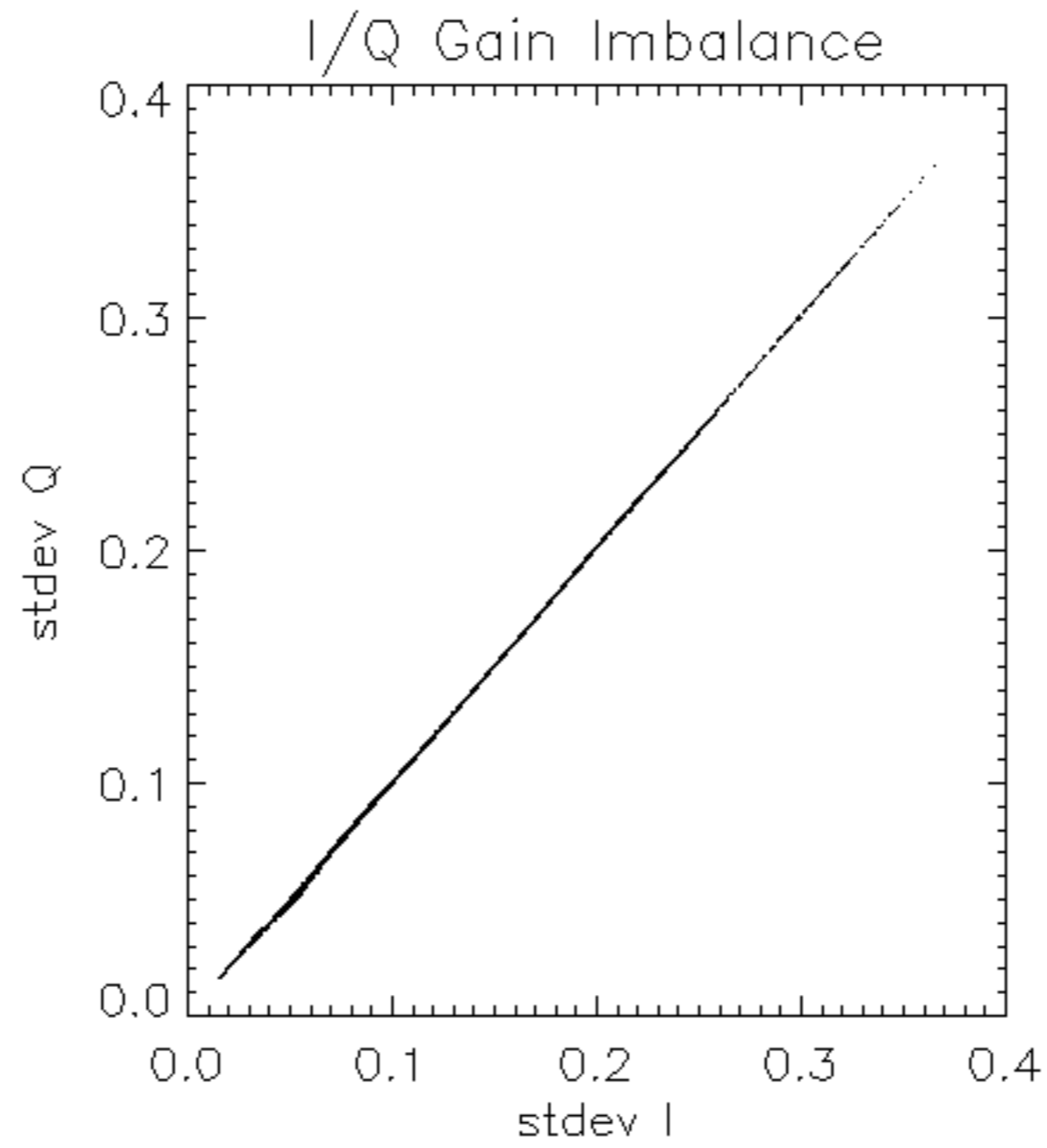
-100Hz +100Hz

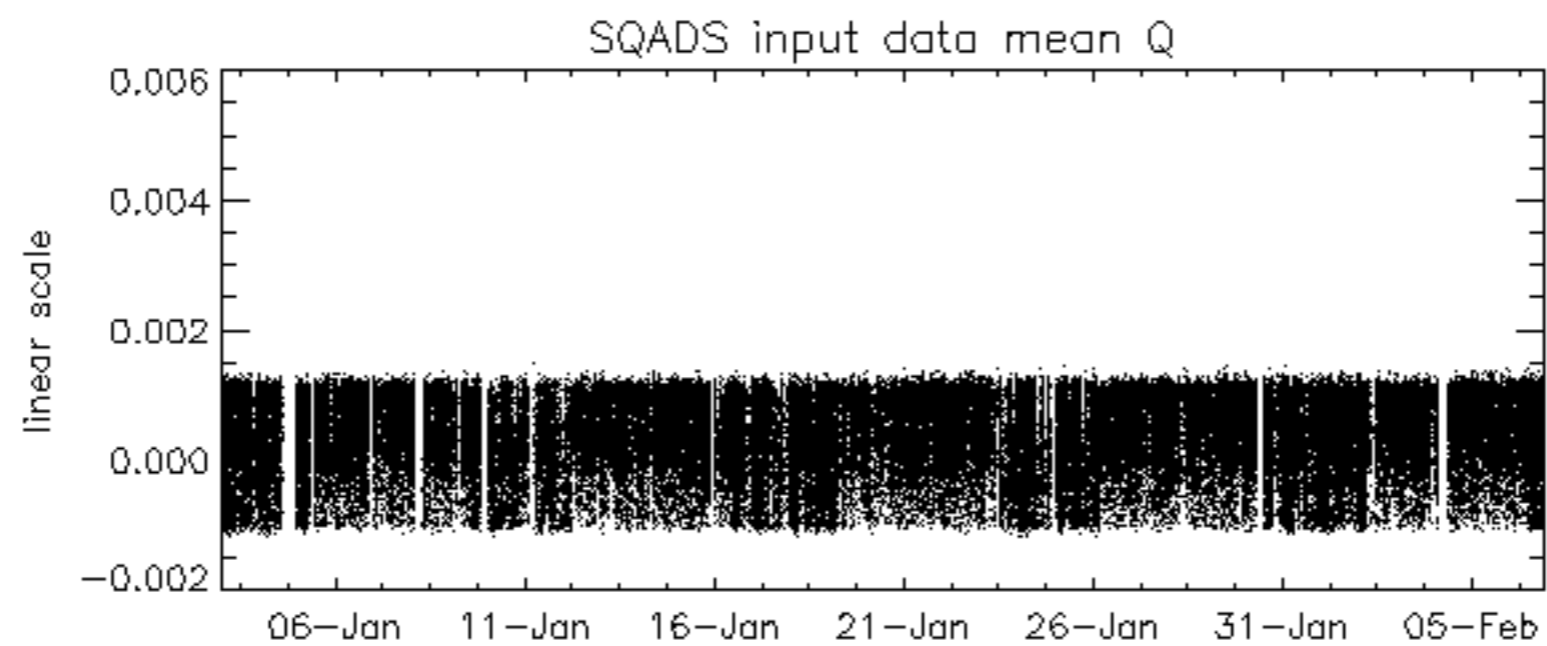
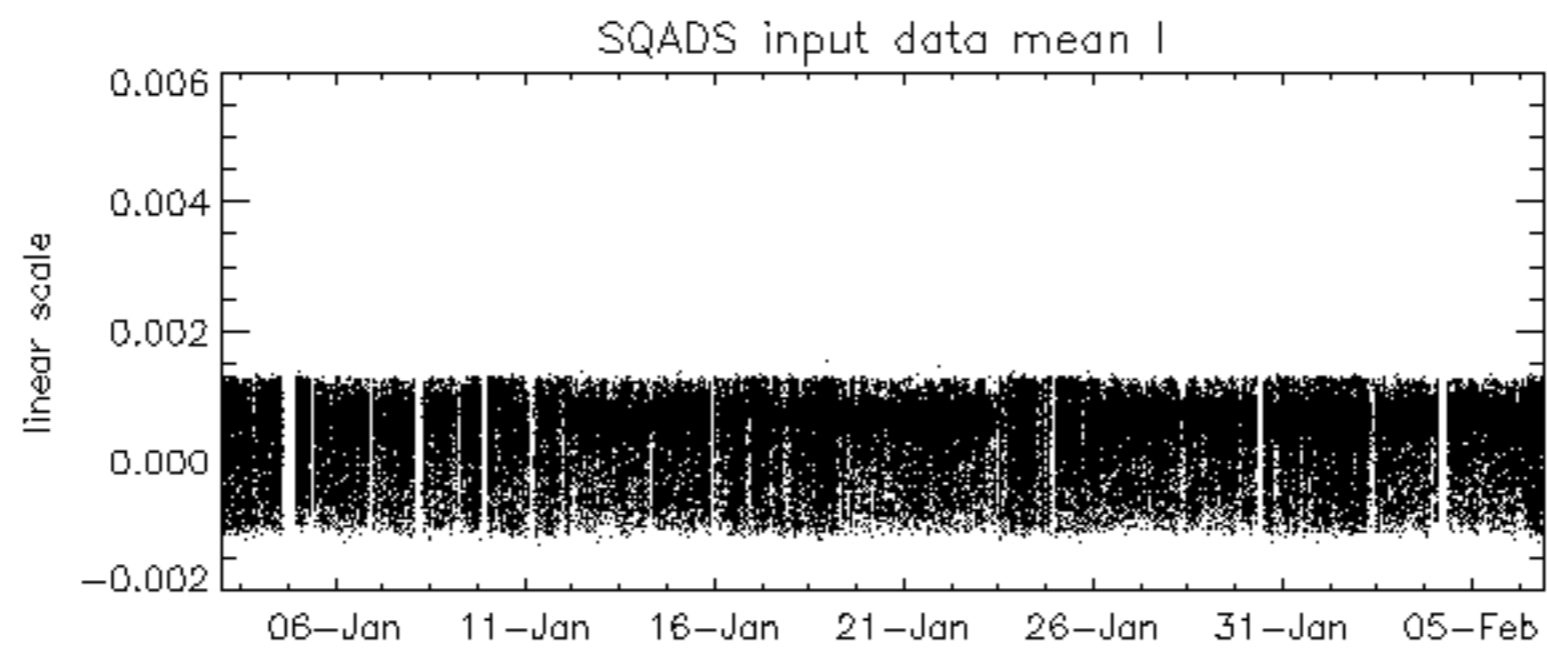
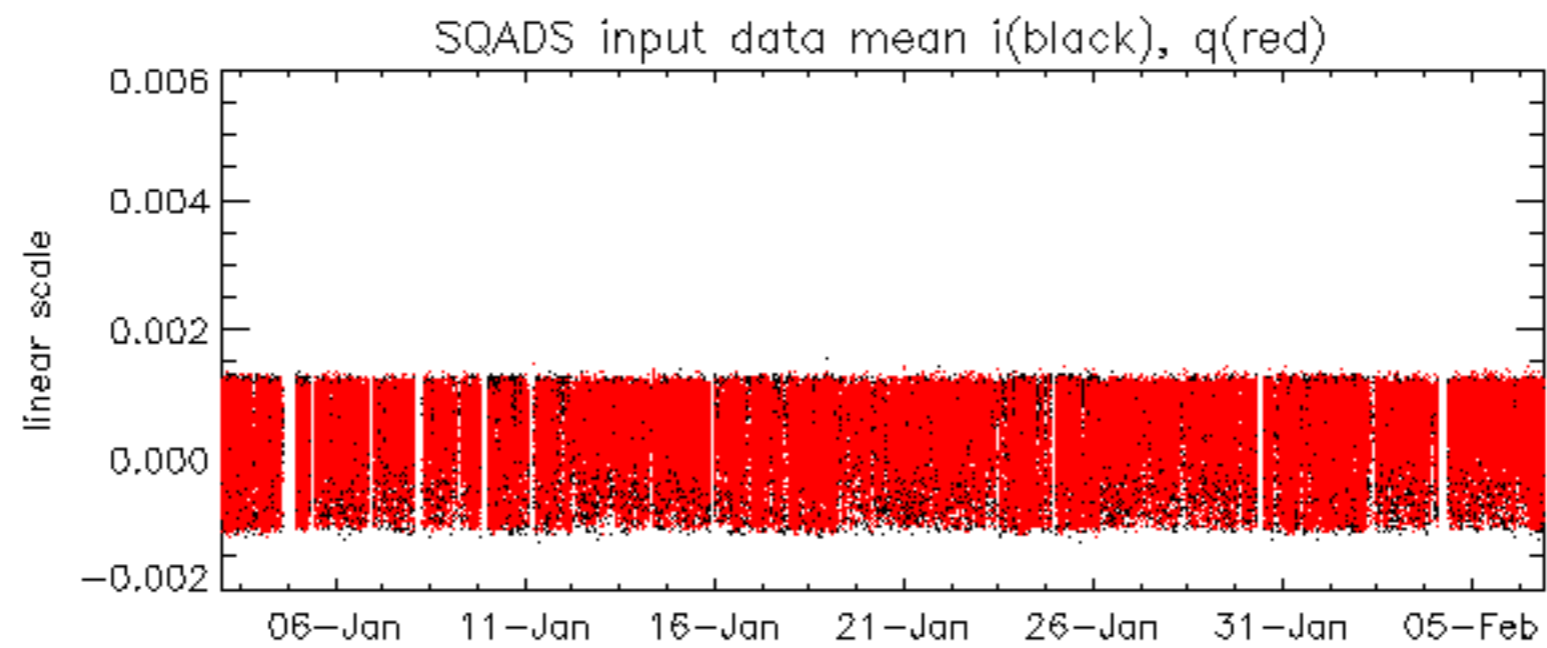
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -31.919654 Hz

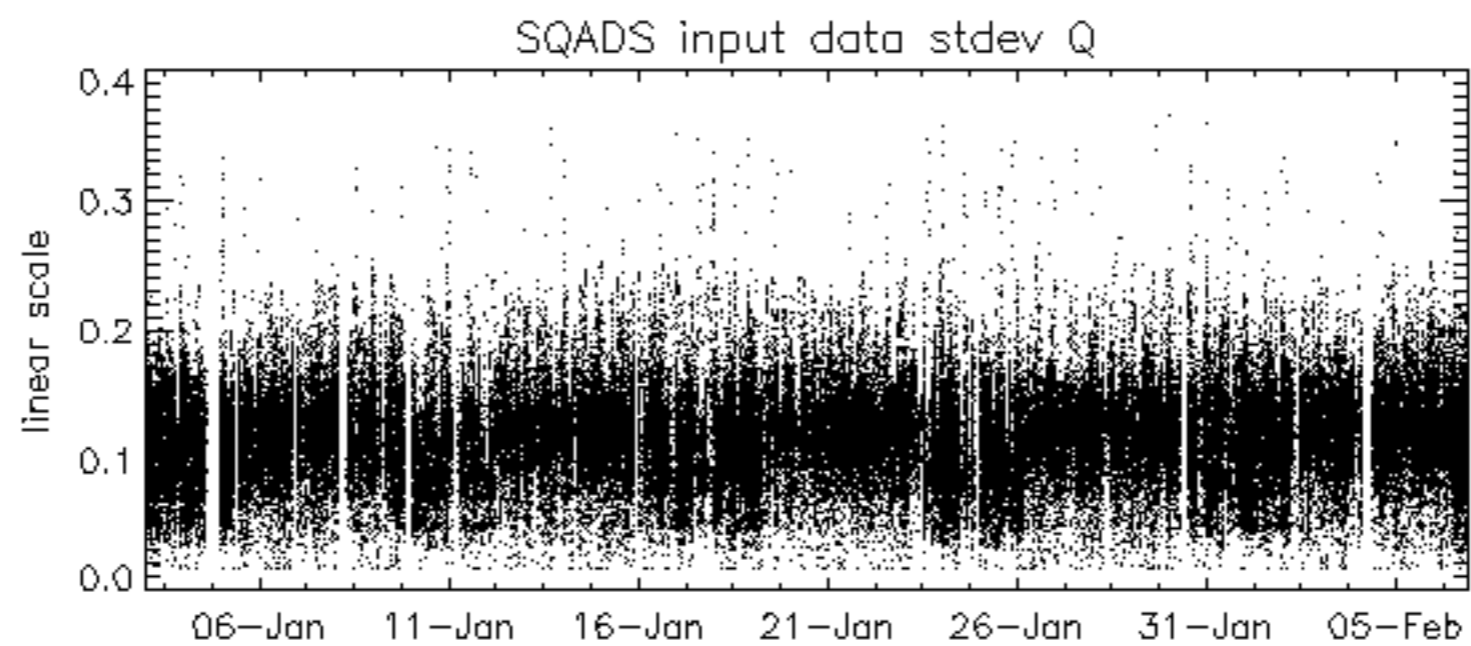
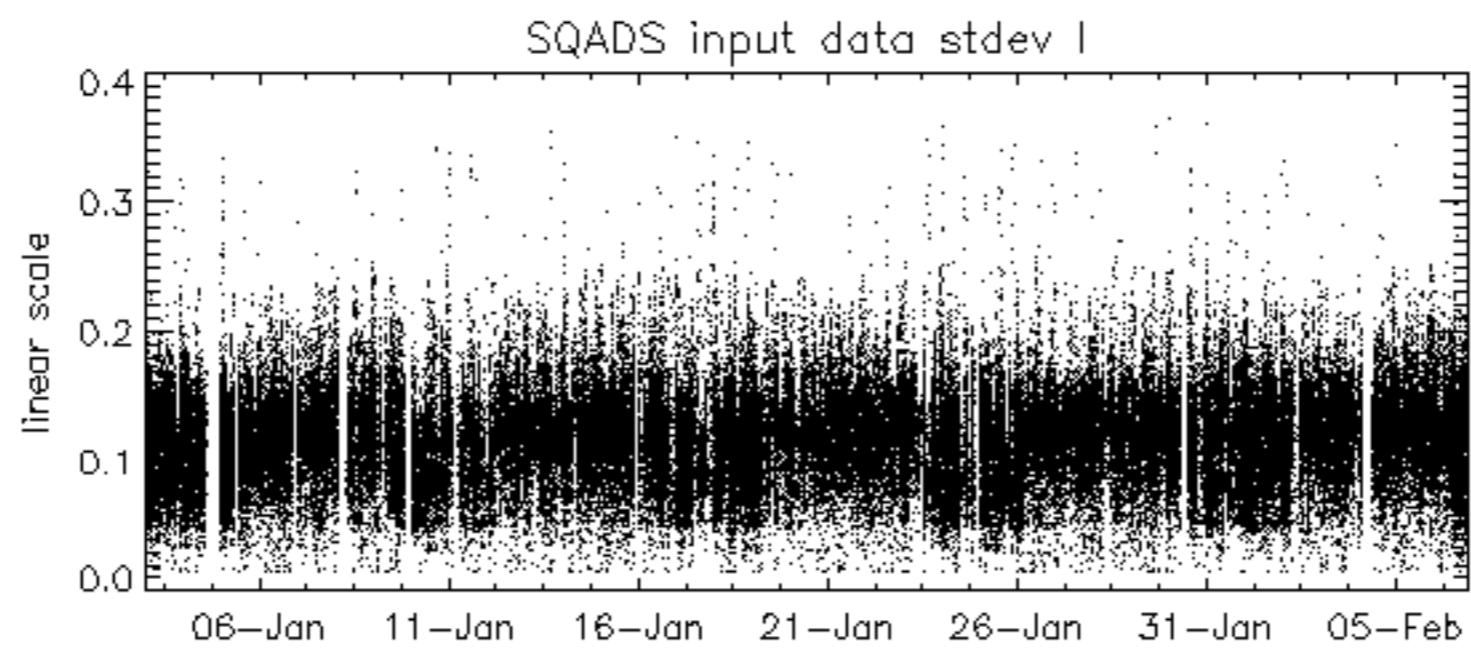
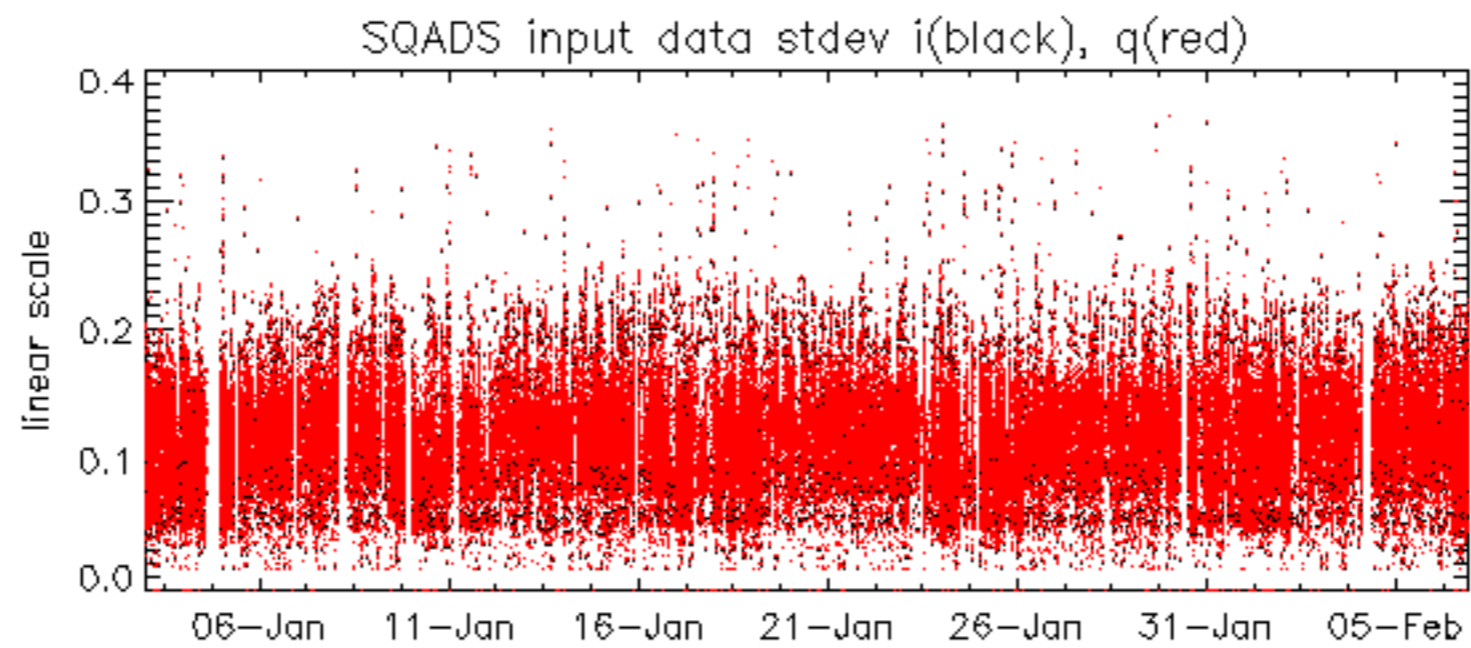


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